



PORON® Polyurethanes

Elastomeric Material Solutions  
www.rogerscorp.com

Typical Product Properties

PORON® 4701-V0-M Medium – Data Sheet

PROPERTY	TEST METHOD	VALUE
<b>PHYSICAL</b>		
Density, kg /m <sup>3</sup> (lb. / ft <sup>3</sup> ) Tolerance, %	ASTM D 3574-95, Test A	400 (25) ± 10
Thickness, mm (inches) Tolerance, %		5 (0.197)   6 (0.236) ± 10
Standard Color (Code)		Smoke Gray (107)
Compression Force Deflection, kPa (psi)	0.51 cm/mm (0.2" / min) Strain Rate Force Measured @ 25% Deflection	41-110 (6-16)
Hardness, Durometer, Shore "OO",	ASTM D 2240-97	24
Compression Set, % max.	ASTM D 3574-95 Test D @ 23°C (73°) ASTM D 3574-95 Test D @ 70°C (158°F)	5 10
Tensile Strength, Min. kPa (psi)	ASTM D 3574-75 Test E	580 (84)
Tensile Elongation, % min.,	ASTM D 3574-75 Test E	55
<b>ELECTRICAL AND THERMAL</b>		
Dielectric Constant, K' ("DK")	ASTM D 150 at RT	~4.0 at 20 Hz (~2.6 at 1x10 <sup>6</sup> Hz)
Dielectric Strength, volts/mil	ASTM D 149	1.5
Volume Resistivity, ohm-cm (Dry and 90% RH)	ASTM D 257-99	~10 <sup>11</sup>
Surface Resistivity, ohm/sq.	ASTM D 257-99	~10 <sup>11</sup>
Thermal Conductivity, W/m-K	ASTM 1530 at RT	0.292
Coefficient of Thermal Expansion, mm/mmC	TMA at 5°C/min heating rate	0.00031
Heat Capacity, J/cm <sup>3</sup> K	ISO/DIS 22007-2.2 (Hot Disk)	0.59

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PORON® 4701-V0-M Medium, Continued

PROPERTY	TEST METHOD	VALUE
<b>TEMPERATURE RESISTANCE</b>		
Recommended Constant Use, max.	SAE J-2236 for 1008 hrs.	90°C (194°F)
Recommended Intermittent Use, max.	SAE J-2236 for 168 hrs.	121°C (250°F)
Embrittlement	ASTM D 746-13	-20°C (-4°F)
Cold Flexibility	MIL-P-12420 D at -40°C (-40°F)	Pass
<b>FLAMMABILITY</b>		
Flame Resistance	UL 94 V-0	Pass
	UL 94 HF-1	Pass
	FMVSS 302	Pass
<b>ENVIRONMENTAL/OFFGASSING</b>		
RoHS 2.0 Testing SGS Report		Pass
Water Absorption, Immersion Testing High Humidity	ASTM D 570	25
	AMS 3568B	<2
REACH Compliance		Pass

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

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